AMENDMENT TO THE CLAIMS

Please replace all prior versions and listings of claims with the amended claims as follows:

1. (Previously presented) A compound of formula I:

or a pharmaceutically acceptable salt thereof, wherein:

Ht is pyrrol-3-yl having R3 and QR4 substituents;

A-B is N-O or O-N;

R1 is hydrogen or -NHR;

T is a valence bond:

Q is -C(O) or -SO₂-;

each R is independently selected from hydrogen or an optionally substituted aliphatic group having one to six carbons;

R² is an aryl group substituted with up to three R⁸ substituents;

R3 is hydrogen:

R4 is -R6 or -NHR6:

each R^6 is independently selected from -(CH₂)_y R^7 ;

y is 0-6;

each R⁷ is an optionally substituted group independently selected from aryl, heteroaryl, or heterocyclyl;

each R⁸ is independently selected from halogen, -R', or -OR'; wherein each R' is independently selected from hydrogen or an optionally substituted C_{1,12} aliphatic.

2. (Previously presented) The compound according to claim 1 having the formula:

$$\begin{array}{c}
 & \text{Ht} \\
 & \text{N} \\
 & \text{T-R}^2
\end{array}$$

or a pharmaceutically acceptable salt thereof.

3. (Previously presented) The compound according to claim 2 having the formula:



I-A

or a pharmaceutically acceptable salt thereof.

- 4. (Previously presented) The compound according to claim 3, wherein said compound has one or more features selected from the group consisting of:
 - (a) Q is -CO-;
 - (b) R1 is hydrogen; and
 - (c) R7 is an optionally substituted heterocyclyl group.
 - 5. (Previously presented) The compound according to claim 4, wherein:
 - (a) Q is -CO-;
 - (b) R1 is hydrogen; and
 - (c) \boldsymbol{R}^7 is an optionally substituted heterocyclyl group.

6. (Previously presented) The compound according to claim 1 having the formula:

or a pharmaceutically acceptable salt thereof.

7. (Previously presented) The compound according to claim 6 having the formula:

$$O_{R^1}^{N} \xrightarrow{T-R^2} H_{R^3}^{Q-R^4}$$

III-A

or a pharmaceutically acceptable salt thereof.

- 8. (Previously presented) The compound according to claim 7, wherein said compound has one or more features selected from the group consisting of:
 - (a) Q is -CO-;
 - (b) R1 is hydrogen; and
 - (c) R⁷ is an optionally substituted heterocyclyl group.
 - 9. (Previously presented) The compound according to claim 8, wherein:
 - (a) Q is -CO-;
 - (b) R1 is hydrogen; and
 - (c) R7 is an optionally substituted heterocyclyl group.

10. (Previously presented) The compound according to claim 1 having the formula:

or a pharmaceutically acceptable salt thereof.

11. (Previously presented) The compound according to claim 10 having the formula:

V-A

or a pharmaceutically acceptable salt thereof.

- 12. (Previously presented) The compound according to claim 11, wherein said compound has one or more features selected from the group consisting of:
 - (a) Q is -CO-; and
 - (b) R⁷ is an optionally substituted heterocyclyl group.
 - 13. (Previously presented) The compound according to claim 12, wherein:
 - (a) Q is -CO-; and
 - (b) R⁷ is an optionally substituted heterocyclyl group.
 - 14-17. (Canceled)
- 18. (Previously presented) The compound according to claim 1, wherein said compound is selected from the following compounds having formulae II-A or and IV-A:



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Compounds of Formula II-A

No.	. T-R ² Q-R ⁴		
IIA-2	2-chlorophenyl	CONHCH2(Ph)	
IIA-3	2-chlorophenyl	CO(morpholin-4-yl)	
IIA-4	4-methoxyphenyl	CONHCH2(pyridin-4-yl)	
IIA-5	3-fluorophenyl	CONHCH2(pyridin-4-yl)	
IIA-6	3-methoxyphenyl	CONHCH2(pyridin-4-yl)	
IIA-7	2,5-dimethoxyphenyl	CONHCH2(pyridin-4-yl)	
IIA-8	3,4-difluorophenyl	CONHCH2(pyridin-4-yl)	
IIA-9	2,3-difluorophenyl	CONHCH2(pyridin-4-yl)	
HA-10	2,5-difluorophenyl	CONHCH2(pyridin-4-yl)	
IIA-11	4-methoxyphenyl	CONHCH ₂ (pyridin-3-yl)	
HA-12	3-fluorophenyl	CONHCH2(pyridin-3-yl)	
IIA-13	3-methoxyphenyl	CONHCH ₂ (pyridin-3-yl)	
IIA-14	2,5-dimethoxyphenyl	CONHCH ₂ (pyridin-3-yl)	
IIA-15	3,4-difluorophenyl	CONHCH ₂ (pyridin-3-yl)	
IIA-16	2,3-difluorophenyl	CONHCH2(pyridin-3-yl)	
IIA-17	2,5-difluorophenyl	CONHCH2(pyridin-3-yl)	
IIA-18	4-methoxyphenyl	CONHCH2(tetrahydrofuran-2-yl)	
IIA-19	3-fluorophenyl	CONHCH2(tetrahydrofuran-2-yl)	
IIA-20	3-methoxyphenyl	CONHCH2(tetrahydrofuran-2-yl)	
IIA-21	2,5-dimethoxyphenyl	CONHCH2(tetrahydrofuran-2-yl)	
IIA-22	3,4-difluorophenyl	CONHCH2(tetrahydrofuran-2-yl)	
IIA-23	2,3-difluorophenyl	CONHCH2(tetrahydrofuran-2-yl)	
IIA-24	2,5-difluorophenyl	CONHCH2(tetrahydrofuran-2-yl)	
IIA-25	4-fluorophenyl	CONHCH2(1-Et-pyrrolidin-2-yl)	
IIA-26	4-methoxyphenyl	CONHCH ₂ (1-Et-pyrrolidin-2-yl)	
IIA-27	3-fluorophenyl	CONHCH ₂ (1-Et-pyrrolidin-2-yl)	
IIA-28	3-methoxyphenyl	CONHCH2(1-Et-pyrrolidin-2-yl)	
IIA-29	2,5-dimethoxyphenyl	CONHCH2(1-Et-pyrrolidin-2-yl)	

No.	T-R ²	Q-R ⁴	
HA-30	3,4-difluorophenyl	CONHCH ₂ (1-Et-pyrrolidin-2-yl)	
IIA-31	2,3-difluorophenyl CONHCH ₂ (1-Et-pyrrolidin-2		
IIA-32	2,5-difluorophenyl	CONHCH2(1-Et-pyrrolidin-2-yl)	
IIA-33	4-fluorophenyl	CO(morpholin-4-yl)	
IIA-34	4-methoxyphenyl	CO(morpholin-4-yl)	
IIA-35	3-fluorophenyl	CO(morpholin-4-yl)	
IIA-36	3-methoxyphenyl	CO(morpholin-4-yl)	
IIA-37	2,5-dimethoxyphenyl	CO(morpholin-4-yl)	
IIA-38	2,3-difluorophenyl	CO(morpholin-4-yl)	
IIA-39	2,5-difluorophenyl	CO(morpholin-4-yl)	
HA-40	4-fluorophenyl	CO(4-Me-piperazin-1-yl)	
IIA-41	4-methoxyphenyl	CO(4-Me-piperazin-1-yl)	
IIA-42	3-fluorophenyl	CO(4-Me-piperazin-1-yl)	
IIA-43	3-methoxyphenyl	CO(4-Me-piperazin-1-yl)	
IIA-44	2,5-dimethoxyphenyl	CO(4-Me-piperazin-1-yl)	
IIA-45	2,3-difluorophenyl	CO(4-Me-piperazin-1-yl)	
IIA-46	2,5-difluorophenyl	CO(4-Me-piperazin-1-yl)	
IIA-47	3-chlorophenyl	CONHCH ₂ (pyridin-4-yl)	
IIA-48	3-chlorophenyl	CONHCH2(pyridin-3-yl)	
IIA-49	3-chlorophenyl	CONHCH ₂ (tetrahydrofuran-2-yl)	
IIA-50	3-chlorophenyl	CONHCH2(1-Et-pyrrolidin-2-yl)	
IIA-51	3-chlorophenyl	CO(4-Me-piperazin-1-yl)	
IIA-52	4-chlorophenyl	CONHCH ₂ (pyridin-4-yl)	
IIA-53	4-chlorophenyl	CONHCH ₂ (pyridin-3-yl)	
IIA-54	4-chlorophenyl	CONHCH ₂ (tetrahydrofuran-2-yl)	
IIA-55	4-chlorophenyl	CONHCH ₂ (1-Et-pyrrolidin-2-yl)	
IIA-56	4-chlorophenyl	CO(morpholin-4-yl)	
IIA-57	4-chlorophenyl	CO(4-Me-piperazin-1-yl)	
IIA-58	3,4-dichlorophenyl	CONHCH ₂ (pyridin-3-yl)	
IIA-59	3,4-dichlorophenyl	CONHCH ₂ (1-Et-pyrrolidin-2-yl)	
IIA-60	3,4-dichlorophenyl	CO(morpholin-4-yl)	
IIA-61	3,4-dichlorophenyl	CO(4-Me-piperazin-1-yl)	
IIA-62	2-F-3-chlorophenyl	CONHCH ₂ (pyridin-4-yl)	
IIA-63	2-F-3-chlorophenyl	CONHCH ₂ (pyridin-3-yl)	

No.	T-R ²	Q-R ⁴	
IIA-64	2-F-3-chlorophenyl CONHCH ₂ (tetrahydrofuran-2-y		
IIA-65	2-F-3-chlorophenyl CONHCH2(1-Et-pyrrolidin-2-		
IIA-66	2-F-3-chlorophenyl	CO(morpholin-4-yl)	
IIA-67	2-F-3-chlorophenyl	CO(4-Me-piperazin-1-yl)	
IIA-68	3-Cl-4-fluorophenyl	CONHCH2(pyridin-4-yl)	
IIA-69	3-Cl-4-fluorophenyl	CONHCH ₂ (pyridin-3-yl)	
IIA-70	3-Cl-4-fluorophenyl	CONHCH ₂ (tetrahydrofuran-2-yl)	
IIA-71	3-Cl-4-fluorophenyl	CONHCH ₂ (1-Et-pyrrolidin-2-yl)	
IIA-72	3-Cl-4-fluorophenyl	CO(morpholin-4-yl)	
IIA-73	3-Cl-4-fluorophenyl	CO(4-Me-piperazin-1-yl)	
IIA-74	3,4-dimethoxyphenyl	CONHCH ₂ (pyridin-4-yl)	
IIA-75	3,4-dimethoxyphenyl	CONHCH2(pyridin-3-yl)	
IIA-76	3,4-dimethoxyphenyl	CONHCH ₂ (tetrahydrofuran-2-yl)	
IIA-77	3,4-dimethoxyphenyl	CONHCH ₂ (1-Et-pyrrolidin-2-yl)	
IIA-78	3,4-dimethoxyphenyl	CO(morpholin-4-yl)	
IIA-79	3,4-dimethoxyphenyl	CO(4-Me-piperazin-1-yl)	
IIA-80	4-benzo[1,3]dioxol-5-yl	CONHCH ₂ (pyridin-4-yl)	
IIA-81	4-benzo[1,3]dioxol-5-yl	CONHCH ₂ (pyridin-3-yl)	
IIA-82	4-benzo[1,3]dioxol-5-yl	CONHCH2(tetrahydrofuran-2-yl)	
IIA-83	4-benzo[1,3]dioxol-5-yl CONHCH2(1-Et-pyrrolidin-		
IIA-84	4-benzo[1,3]dioxol-5-yl	CO(morpholin-4-yl)	
IIA-85	4-benzo[1,3]dioxol-5-yl	CO(4-Me-piperazin-1-yl)	
IIA-86	3,5-dichlorophenyl	CONHCH ₂ (pyridin-4-yl)	
IIA-87	3,5-dichlorophenyl	CONHCH ₂ (pyridin-3-yl)	
IIA-88	3,5-dichlorophenyl	CONHCH ₂ (tetrahydrofuran-2-yl)	
IIA-89	3,5-dichlorophenyl	CONHCH ₂ (1-Et-pyrrolidin-2-yl)	
IIA-90	3,5-dichlorophenyl	CO(morpholin-4-yl)	
IIA-91	3,5-dichlorophenyl	CO(4-Me-piperazin-1-yl)	
IIA-93	3-chlorophenyl	CO(morpholin-4-yl)	
ПА-106	phenyl	* O.	

No.	T-R ²	Q-R ⁴	
HA-107	phenyl	2 ¹ NON	
ПА-108	3,4-dimethoxyphenyl	100 m m m m m m m m m m m m m m m m m m	
ПА-109	3-chlorophenyl	° ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	
IIA-110	3-chlorophenyl		
ПА-111	3-methylphenyl	şů _N	
ПА-114	2-fluoro-3-chlorophenyl	ئال	
ПА-115	3-chlorophenyl	Ar CH 2 CH	
IIA-116	3,4-dimethoxyphenyl		
IIA-117	3,4-dimethoxyphenyl	Z, NOH	
IIA-119	3-methylphenyl	ş ¹ N→OH	

No.	T-R ²	Q-R ⁴
HA-120	2-fluoro-3-chlorophenyl	ş [™] N N F
ПА-121	2-fluoro-3-chlorophenyl	Ž, N N N N N N N N N N N N N N N N N N N
IIA-122	2-fluoro-3-chlorophenyl	3 ¹ N N N OH
ПА-123	3-chlorophenyl	3 ¹ 1,
ПА-124	3,4-dimethoxyphenyl	
IIA-125	2-fluoro-3-chlorophenyl	%
ПА-126	2-fluoro-3-chlorophenyl	ş Î N
IIA-130	phenyl	
ПА-131	phenyl	<u></u> پُدُيْ
IIA-132	phenyl	ئائن

No.	T-R ²	Q-R ⁴
IIA-133	phenyl	3 ¹ N
ПА-134	phenyl	ولأس ل
IIA-135	3,4-dimethoxyphenyl	ŞÎZ ZÎ
IIA-136	3,4-dimethoxyphenyl	şÅ _N
ПА-137	3,4-dimethoxyphenyl	ş ^{il} N
IIA-138	3-methylphenyl	ئ ^ا ري
IIA-139	3-methylphenyl	ŞÎZ X
IIA-140	3-methylphenyl	şÅ _N ⇒
IIA-141	2-fluoro-3-chlorophenyl	
IIA-142	3-chlorophenyl	<u> </u> پگیک
ПА-143	3-chlorophenyl	ş ¹ 0,5

No.	T-R ²	Q-R⁴	
IIA-144	3-chlorophenyl	ې ^{ئا} سې	
ПА-145	3-chlorophenyl	zh O	
ПА-146	3-chlorophenyl	şÎ NÇ N	
IIA-148	phenyl	² ^{yll} N	
IIA-150	3,4-dimethoxyphenyl	2 Å	
IIA-151	3-methylphenyl	۶ ¹ ()	
ПА-152	3-methylphenyl	Se CH2	
IIA-153	phenyl	şÅ,√oH	
ПА-154	phenyl	δ	
IIA-155	phenyl	^{ړيگ} ان	

No.	T-R ²	Q-R ⁴
ПА-156	3,4-dimethoxyphenyl	²y N N N N N N N N N N N N N N N N N N N
IIA-157	3,4-dimethoxyphenyl	ş ^N N N YCH3
IIA-159	3-methylphenyl	2 N COH
IIA-160	3-chlorophenyl	2, NOH
ПА-161	phenyl	2-11 N
ПА-162	3-chlorophenyl	2-1 N
ПА-163	3,4-dimethoxyphenyl	² γ N N CH ₃
ПА-164	3-chlorophenyl	2 ² N N CH3
IIA-165	phenyl	² ^l N∕
IIA-167	phenyl	5- N CH2

No.	T-R ²	Q-R ⁴	
ПА-168	3,4-dimethoxyphenyl	ş.Å _N ∫OH	
ПА-169	3,4-dimethoxyphenyl	ş li N	
ПА-170	3,4-dimethoxyphenyl	ş ^{il} N∖N F	
IIA-171	3-methylphenyl	ş ^Å N∕>OH	
ПА-172	3-methylphenyl	ş ^Î N N	
ПА-173	3-methylphenyl	ş ^N N N N OH	
ПА-174	3-methylphenyl	ş ^{il} N	
ПА-175	3-methylphenyl	ب ^گ اری کی ا	
ПА-176	3-methylphenyl	y N N CH3	
IIA-177	2-fluoro-3-chlorophenyl	δ. N CH ³	

No.	T-R ²	Q-R ⁴	
HA-179	2-fluoro_[[,]]3-chlorophenyl	5- N	
IIA-180	2-fluoro <u>-[[,]]</u> 3-chlorophenyl	بنُّن	
IIA-182	3-chlorophenyl	Ž ^N N→OH	
ПА-183	3-chlorophenyl	y N N N N N N N N N N N N N N N N N N N	
IIA-184	3-chlorophenyl	₹ ^N N\N\OH	
ПА-187	3-methylphenyl	۶ ^۱ , ۲	
ПА-190	2-fluoro-3-chlorophenyl	ş [™] N⊃N⊃	
IIA-191	phenyl	², Ů _N OH	
ПА-192	3,4-dimethoxyphenyl	ş ¹ N⊃ _{OH}	
IIA-193	3-methylphenyl	₹ ^Î N OH	

No.	T-R ²	Q-R ⁴
IIA-194	phenyl	2 _e \(\)

Compounds of Formula IV-A

No.	R	T-R ²	Q-R ⁴
IVA-4	Н	phenyl	CO(pyrrolidin-1-yl)
IVA-5	Me	phenyl	CONHCH2(Ph)
IVA-16	Me	3-Cl-phenyl	CONHCH2(pyridin-4-yl)
IVA-17	н	5-Cl-phenyl	2 L N
IVA-18	Н	5-F-phenyl	CONHCH2(tetrahydrofuran-2-yl)
IVA-19	Me	5,6-F ₂ -phenyl	CO(4-Me-piperidin-1-yl)
IVA-20	Н	4-Cl-phenyl	CONHCH2(pyrid-4-yl)
IVA-21	Н	4,5-(OMe) ₂ -phenyl	Z-N-HN-N
IVA-22	Me	4,5-Cl ₂ -phenyl	2 N O CH3

- 19. (Previously presented) A composition comprising a compound according to claim 1 and a pharmaceutically acceptable carrier.
- 20. (Original) The composition according to claim 19 wherein said compound is formulated in a pharmaceutically acceptable manner for administration to a patient.

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- 21. (Previously presented) The composition according to claim 19 further comprising an additional therapeutic agent selected from a chemotherapeutic agent, an anti-inflammatory agent, an immunomodulatory or immunosuppressive agent, a neurotrophic factor, and agent for treating liver disease, an agent for treating a blood disorder, an agent for treating diabetes, or an agent for treating an immunodeficiency disorder.
- 22. (Previously presented) The composition according to claim 20 further comprising an additional therapeutic agent selected from a chemotherapeutic agent, an anti-inflammatory agent, an immunomodulatory or immunosuppressive agent, a neurotrophic factor, and agent for treating liver disease, an agent for treating a blood disorder, an agent for treating diabetes, or an agent for treating an immunodeficiency disorder.
- 23. (Previously presented) A method of inhibiting ERK or AKT activity in a biological sample selected from cell cultures or extracts thereof, biopsied material obtained from a mammal or extracts thereof, saliva, urine, feees, semen, tears, or extracts thereof, comprising the step of contacting said biological sample in vitro with a compound according to claim 1 or a composition according to claim 19.

24-43. (Canceled)